Controller

User Interface 102

1. Receives AM/FM/TV frequency information - based on user channel selection. 106

2. Contains look-up table or algorithm to calculate the proper pulse-frame frequency to minimize RF Signal interference. 110

3. Output control data bits for proper pulse-frame frequency selection via controlling the Digital Asynchronous Sample Rate Converter's Master Clock generator frequency.

108

100

104

FIG. 1

Decode 112

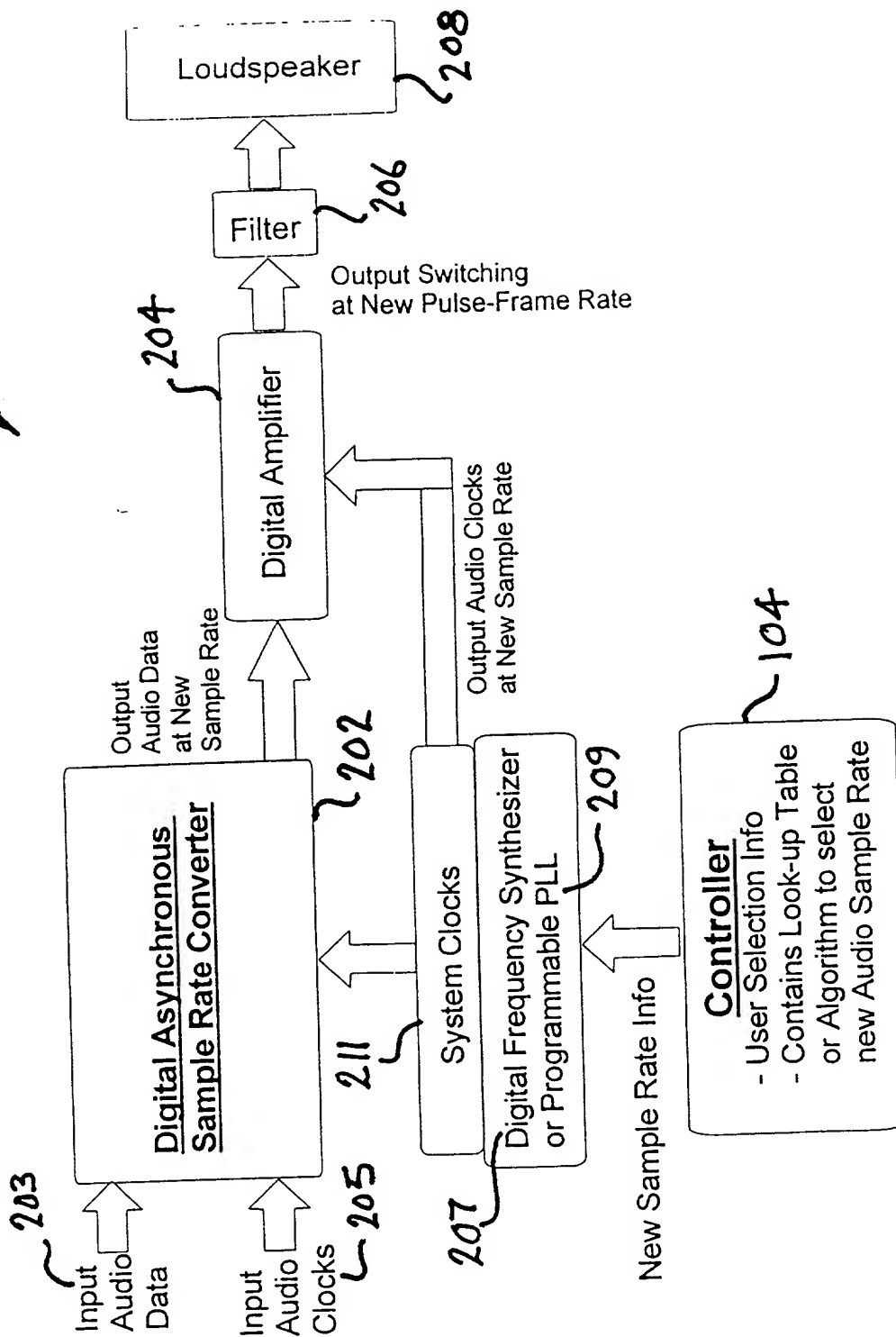**Digital Asynchronous Sample Rate Converter's Master Clock Generator.** 114

FIG. 2

200

Loudspeaker 208

Filter 206

Output Switching
at New Pulse-Frame Rate

Digital Amplifier 204

Output Audio Clocks
at New Sample Rate

Output
Audio Data
at New
Sample Rate

Digital Asynchronous
Sample Rate Converter 202

System Clocks 211

Digital Frequency Synthesizer
or Programmable PLL 209

Input
Audio
Data 203

Input
Audio
Clocks 205

207

New Sample Rate Info

Controller 104
- User Selection Info
- Contains Look-up Table
  or Algorithm to select
  new Audio Sample Rate